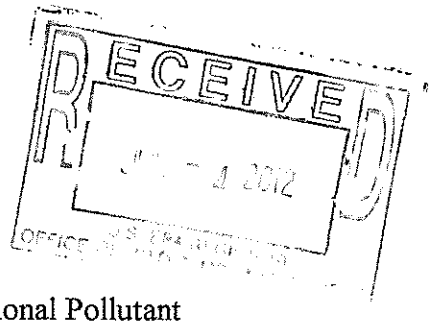
# United States Department of the Interior
FISH AND WILDLIFE SERVICE
Hagerman National Fish Hatchery
3059 D National Fish Hatchery Road
Hagerman, Id 83332
208-837-4896 (Phone)
208-837-6225 (Fax)


TAKE PRIDE IN AMERICA

May 23, 2012

Audrey Washington
U.S. Environmental Protection Agency
Region 10, OWW-130
1200 Sixth Avenue, Suite 900
Seattle, WA 98101




Re: NPDES Permit ID-G-13-0004

Dear Audrey,

Enclosed is the Notice of Intent (NOI) to discharge under the existing National Pollutant Elimination System (NPDES) permit number ID-G-13-0004. The current permit was issued in 2007 and will expire at midnight November 30, 2012. This NOI is requesting authorization to discharge under the new permit.

Should you have any questions, please feel free to contact me by phone, fax, or email. My email address is bob_turik@fws.gov.

Sincerely,

Bob Turik
Acting Project Leader

cc: Dr. Balthasar B. Buhidar, PhD, IDEQ

## NOTICE OF INTENT TO OPERATE UNDER NPDES GENERAL PERMIT ID-G13-0000 FOR AQUACULTURE FACILITIES AND ASSOCIATED FISH PROCESSING FACILITIES IN IDAHO

Submission of this document constitutes notice that the party identified under Operator Name intends to be covered by the general permit authorizing discharges from aquaculture activities in Idaho and obligates the permittee to comply with the terms and conditions of the permit.

**Facility Owner/Operator Information:**

| | |
|---|---|
| Operator Name: Bob Turik | Phone: |
| Address: See facility information | Fax: |
| | E-Mail Address: bob_turik@fws.gov |
| | County: |
| Owner Name (if different from operator):<br>U.S. Fish and Wildlife Service | Phone: |
| Address: | Fax: |
| | E-Mail Address: |
| | County: |
| **Facility Information:** | |
| Facility Name:<br>Hagerman National Fish Hatchery | Phone: 208-837-4896 |
| Address (attach area map): | Fax: 208-837-6225 |
| 3059-D National Fish Hatchery Rd. | E-Mail Address: (see operator information) |
| Hagerman, ID 83332 | County: Gooding |

Previous Facility Names and Dates of Change of Name in Past Five Years: N/A

**New Permittees Only**

Facility Latitude:
(to 15 seconds of a degree): **N/A**

Facility Longitude:
(to 15 seconds of a degree): **N/A**

**Operations & Production Information**

Describe the facility to be covered by the permit:

* Number of concrete raceways: 138 area: 77,140 square feet

Number of earthen-bottomed ponds: 0 area: 0

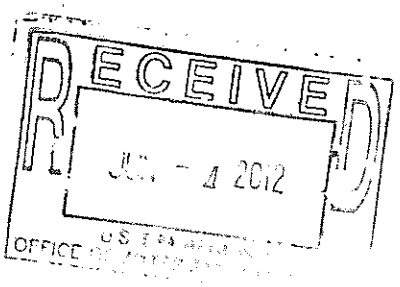
Number of off line settling basins: 2 area: 22,816 square feeet

Number of full flow settling basins: 0 area: 0

Number of quiescent zones: 138

Number of fish processing lines: 0

* Includes nursery tanks. (20 concrete tanks and 40 fiberglass)



Project the numbers of operating days for the facility on a monthly basis throughout the calendar year:

| Month | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| # Days | 31 | 28 | 31 | 30 | 31 | 30 | 31 | 31 | 30 | 31 | 30 | 31 |

Aquaculturists, list the species contained, grown or held at your facility. For each species include projected weight of production for the five year term of the permit based upon historical operations and design capacity.

| Species | Year One Weight (lbs) | Two | Three | Four | Five |
|---|---|---|---|---|---|
| Steelhead | 315,000 | 315,000 | 315,000 | 315,000 | 315,000 |
| Rainbow Trout | 20,000 | 20,000 | 20,000 | 20,000 | 20,000 |

Project the Feed Usage in next 5 years? Avg Wgt per Month 28,000 Avg Wgt per Year 336,000

Max Wgt per Month: 90,000 Max Wgt per Year: 408,000

Fish Processors. ***Not Applicable***

List the species of fish processed at your facility. For each species include the projected weight of whole fish processed for the five year term of the permit based upon historical operations and design capacity:

| **Species:** | **Year One, Weight (lbs)** | **Two** | **Three** | **Four** | **Five** |
|---|---|---|---|---|---|
| | | | | | |

Drugs, Disinfectant & Other Chemicals. List all projected types & maximum daily amounts used in next 5 years.

Name: **See attached list**

Name:

Name:

Name:

## Description of Discharge

Describe the number & nature of outfalls (attach sketch, diagram or photo):

**See attached map**

Water Sources and Flow Through the Facility & Time Period (e.g., 12 cfs minimum, and 15 cfs maximum between June 15 and September 30 in a typical year from True Springs)

| | | |
|---|---|---|
| Primary Source: See Attached | Mm flow: | Max flow: |
| Secondary Source: | Mm flow: | Max flow: |

| Name(s) of Receiving Water to which Outfall Discharges: | Larger Receiving Water Downstream: |
|---|---|
| Riley creek, tributary to . . . . . | Snake River |
| Bickle irrigation ditch, tributary to Oster lakes, tributary to Riley creek, tributary to . . . . . | Snake River |
| WATERSHED – UPPER SNAKE ROCK W.S. POLLUTANTS ALLOCATED – SEE NOTE BELOW | |
| NPDES Permit No: **IDG130004** | IDA License Number: N/A |
| Other Number(s) Assigned to Facility and Source: N/A | DWR Water Right Number: See Attached List |

**Initial Submittals Which Are Attached**

_____ Waiver Request
__X__ Location Map, also showing all outfall and monitoring location(s)
_____ Best Management Practices Plan Certification (for new permittees only)

**SIGNATURE AND CERTIFICATION**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possiblity of fine and imprisonment for knowing violations."

| Signature: | Title/Company: | |
|---|---|---|
|  | ACTING HATCHERY MGR / USFWS | |
| Print Name: Bob Turik | Date: 5/23/2012 | Check One: Owner_____ Operator__X__ |

Attach additional pages, as necessary.

* NOTE:

| | NET TSS AVE. MO. | NET TSS AVE DAILY | NET TOTAL P AVE MO | NET TOTAL P AVE DAILY |
|---|---|---|---|---|
| JAN-APR | 2068.2 | 3929.5 | 17.8 | 26.3 |
| MAY-AUG | 697.4 | 1325.1 | 6.0 | 8.9 |
| SEP-DEC | 1487.0 | 2825.3 | 12.8 | 18.9 |

SEASONAL EFFLUENT LIMITATIONS (LBS/DAY)

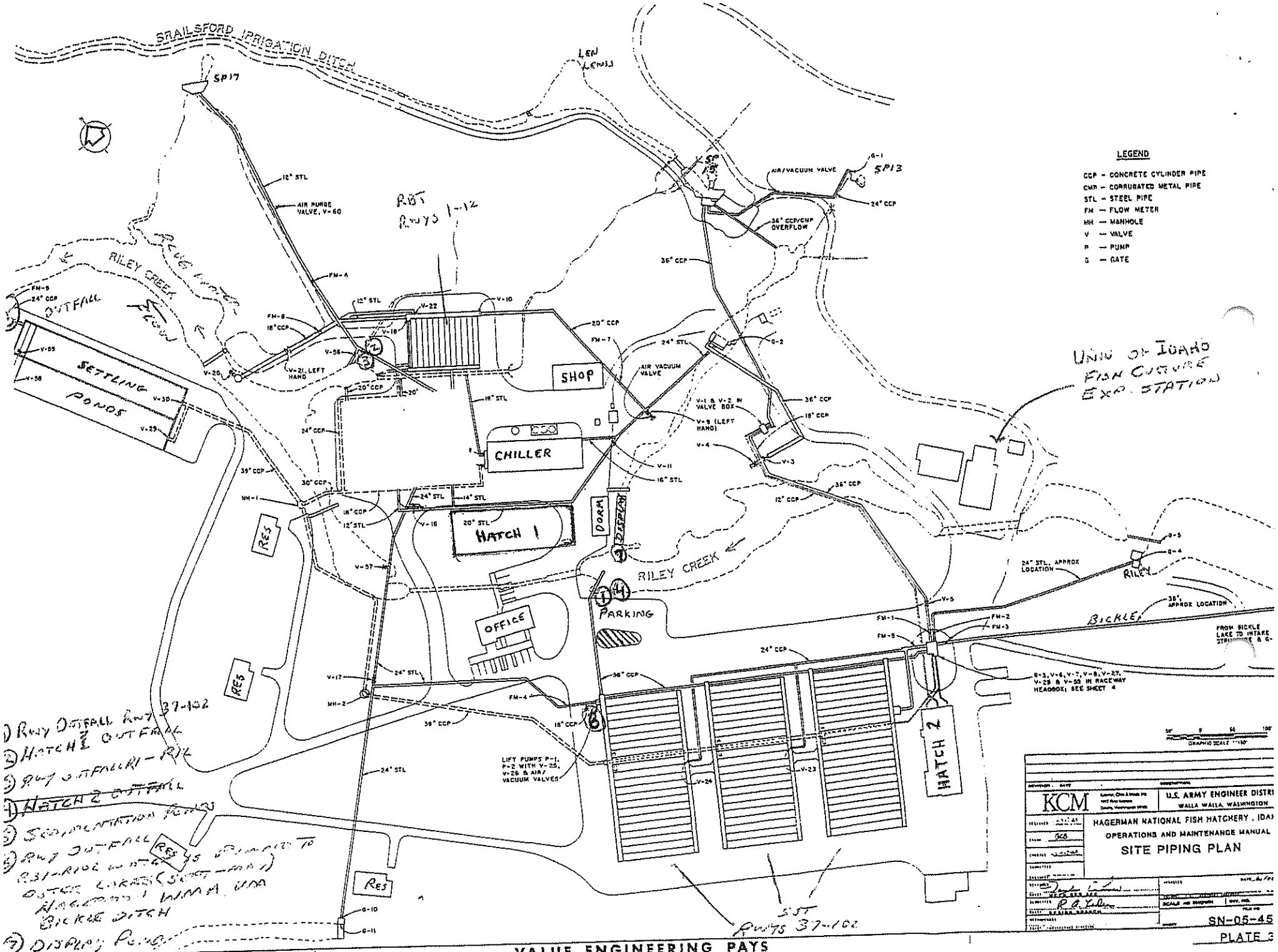
Following is a list of chemical uses to be accounted for in the Notice of Intent to be covered under the NPDES General Permit Number ID-G-13-0004 submitted by the Hagerman National Fish Hatchery on March 25, 2004.

| Drugs, Disinfectant & Other Chemicals | Maximum Daily Amount to be Used | Method of Waste Water Disposal |
|---|---|---|
| **chlorine bleach (6.0%)** - used for tank disinfection | 400 ml | Waste water is directed to off-line settling basin (OLSB). |
| **chlorine bleach (6.0%)** - used for disinfection of marking trailers and raceways | 16 gallons | Waste water is neutralized and directed to the OLSB. |
| **chlorine bleach (6.0%)** - used for disinfection of equipment and tanker trailers | 54 gallons | Waste water is neutralized with sodium thiosulfate and is then land applied. |
| **iodophore** (10% polymeric iodine complex) | 1.0 gallon | Waste water is neutralized with sodium thiosulfate and is then land applied. |
| **sodium thiosulfate** (CAS 7772-98-7) | 340 pounds | Waste water may be land applied or directed to OLSB. |
| Argent Chemical Laboratories A**Hyamine 1622**" | 300 ml | Waste water may be land applied, directed to septic system, or to OLSB. |
| Argent Chemical Laboratories A**Finquel**," A.K.A. **MS-222** | 200 grams | Waste water is land applied. |
| **vaccines** (for inoculation against enteric redmouth, furunculosis, or *Aeromonas hydrophila*) | 15 liters of each type of vaccine | Waste water is land applied. |
| **anti-foam** (5% polydimethylsiloxane solution) | 50 ml | Waste water is land applied. |
| **anti-foam** (5% polydimethylsiloxane solution) | 1,000 ml | Waste water is released with the fish into Idaho rivers and reservoirs. |

**(Continued)**

## Projected uses of chemicals, continued:

| Drugs, Disinfectant & Other Chemicals | Maximum Daily Amount to be Used | Method of Waste Water Disposal |
|---|---|---|
| **Terramycin** feed additive (oxytetracycline) | 29.4 lbs | Fish waste is diverted to OLSB. |
| **Romet-30** feed additive | 59.6 lbs | Fish waste is diverted to OLSB. |
| **Romet-B** feed additive | 86.2 lbs | Fish waste is diverted to OLSB. |
| **Nuflor** feed additive (florfenicol) | 1,000 ml | Fish waste is diverted to OLSB. |
| **Reward** (Diquat dibromide) | 9 gallons - Treatment concentration is 2.0 mg/l (active ingredient). | Effluent is directed to either the OLSB system or to Riley Creek. |
| **Chloramine T** INAD water treatment | 20 ppm per raceway | Neutralized with 3 parts Sodium Thiosulfate and discharged to OLSB or to Riley Creek |
| **Potassium Permanganate (KMnO4)** – water treatment | 2 ppm per raceway | Discharged to OLSB or to Riley Creek |
| **Aquaflor** – Florenfenicol feed additive | 3 lbs | Fish Waste is diverted to OLSB |
| **Virkon** | 4 oz. | Waste water is land applied |




VALUE ENGINEERING PAYS

KCM

U.S. ARMY ENGINEER DISTRICT
WALLA WALLA, WASHINGTON

HAGERMAN NATIONAL FISH HATCHERY, IDAHO
OPERATIONS AND MAINTENANCE MANUAL
SITE PIPING PLAN

SN-05-45
PLATE 3

| U.S. Fish and Wildlife Service Water Rights at Hagerman National Fish Hatchery | | | | |
|---|---|---|---|---|
| **Spring Name** | **IDWR No.** | **Volume** | **Purpose** | **Priority Date** |
| Bickel Spring Creek | 36-00128 | 2.00 | Fish Propagation | 01/18/1889 |
| Riley Creek | 36-00130 | 1.50 | Fish Propagation | 01/18/1889 |
| Springs 11 & 13* | 36-00132 | 6.00 | Fish Propagation 6.0 cfs, Domestic 0.89 cfs, Irrigation 0.22 cfs; Stockwater 0.02 cfs | 06/15/1910 |
| Bickel Spring Creek | 36-15444 | 20.30 | Fish Propagation | 01/01/1933 |
| Riley Creek | 36-15446 | 4.50 | Fish Propagation | 01/01/1933 |
| Spring (Main) & Springs 12,13, &14 | 36-15448A | 11.43 | .Fish Propagation | 01/01/1933 |
| Spring (Main) & Springs 12, 13, & 14 | 36-15448B | 8.57 | Fish Propagation | 01/01/1950 |
| Spring 15 | 36-15449 | 4.50 | Fish Propagation | 01/01/1933 |
| Len Lewis Spring 16 | 36-15450 | 21.20 | 21.2 cfs for fish propagation during non-irrigation season and 8.0 cfs for fish propagation during irrigation season. | 01/01/1950 |
| Spring 17 | 36-15451 | 4.59 | Fish Propagation | 01/01/1959 |
| Springs 8 & 9* | 36-00131 | 1.0 | Fish Propagation | 06/15/1910 |
| Springs 8 & 9* | 36-15447 | 0.5 | Fish Propagation | 01/01/1966 |
| Spring 10* | 36-00129 | 1.00 | Fish Propagation | 01/18/1899 |
| Spring 10* | 36-15445 | 0.6 | Fish Propagation | 01/01/1966 |
| Springs 8, 9, & 11* | 36-08354 | 1.5 | Fish Propagation | 05/06/1988 |
| Groundwater | 36-08750 | 0.04 | Domestic (Year-round) | 03/13/1996 |
| Bickel Spring & Riley Creek | 36-15961 | 20.55 | Fish Propagation (5/6 to 6/19) | 11/19/2001 |

* Water diverted for use at the University of Idaho, Hagerman Fish Culture Experiment Station includes Spring 8, 9, 10, & 11 and that portion of Spring 13 used for irrigation.

**Total Average Water Available at Facility- Hagerman National Fish Hatchery**

| | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|
| Jan | 75.9 | 75.0 | 75.5 | 74.7 | 74.2 | 75.2 | 72.6 | 73.4 |
| Feb | 76.1 | 73.8 | 75.2 | 74.1 | 73.2 | 73.0 | 72.0 | 73.1 |
| Mar | 75.7 | 74.0 | 74.4 | 74.2 | 71.9 | 73.1 | 71.9 | 73.6 |
| Apr | 75.6 | 74.3 | 75.5 | 74.0 | 72.7 | 73.7 | 73.7 | 72.6 |
| May | 74.0 | 73.8 | 76.1 | 72.1 | 74.5 | 75.6 | 72.4 | |
| Jun | 68.4 | 73.3 | 74.5 | 71.1 | 74.4 | 73.9 | 71.7 | |
| Jul | 63.8 | 73.7 | 73.8 | 70.3 | 73.0 | 72.0 | 69.9 | |
| Aug | 70.0 | 74.4 | 76.4 | 72.3 | 74.4 | 71.4 | 69.4 | |
| ep | 74.3 | 75.6 | 78.9 | 74.8 | 77.6 | 74.7 | 74.2 | |
| Oct | 75.5 | 75.8 | 79.8 | 74.9 | 77.8 | 76.2 | 77.0 | |
| Nov | 75.6 | 76.5 | 78.7 | 75.6 | 76.5 | 75.2 | 77.9 | |
| Dec | 75.4 | 76.7 | 75.1 | 75.2 | 76.4 | 73.4 | 74.7 | |

**Average Monthly Water Used for Fish Production (cfs) - Hagerman National Fish Hatchery**

| | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|
| Jan | 63.9 | 62.6 | 63.0 | 62.5 | 66.2 | 63.3 | 61.1 | 62.5 |
| Feb | 65.1 | 62.4 | 63.2 | 62.2 | 62.3 | 62.1 | 61.4 | 61.8 |
| Mar | 66.3 | 64.7 | 64.5 | 64.8 | 63.2 | 64.1 | 63.3 | 65.1 |
| Apr | 66.3 | 57.9 | 58.0 | 62.7 | 59.5 | 64.1 | 63.7 | 64.4 |
| May | 48.1 | 40.5 | 43.8 | 46.3 | 22.1 | 37.9 | 40.8 | |
| n | 21.8 | 39.8 | 42.0 | 28.6 | 17.3 | 30.0 | 16.0 | |
| Jul | 39.8 | 35.9 | 17.3 | 25.0 | 28.1 | 27.4 | 18.0 | |
| Aug | 45.6 | 47.1 | 45.2 | 46.3 | 46.4 | 38.9 | 38.5 | |
| Sep | 49.1 | 50.3 | 54.9 | 50.8 | 53.2 | 50.8 | 49.2 | |
| Oct | 47.9 | 47.1 | 53.1 | 50.8 | 54.1 | 52.7 | 49.9 | |
| Nov | 59.4 | 60.8 | 54.9 | 59.2 | 66.9 | 66.7 | 63.3 | |
| Dec | 63.0 | 64.0 | 62.5 | 67.0 | 68.0 | 63.7 | 63.1 | |